This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (original) An assay for identifying a substance that inhibits the specific interaction of a host cell protein, that is not a cell surface receptor protein, with a viral protein required for viral infection, replication, assembly or release, comprising:
- (a) contacting a protein or peptide containing an amino acid sequence corresponding to the binding site of the host cell protein with a protein or peptide having an amino acid sequence corresponding to the binding site of the viral protein, under conditions and for a time sufficient to permit binding and the formation of a complex, in the presence of a test substance, and
- (b) detecting the formation of a complex, in which the ability of the test substance to inhibit the interaction between the host cell protein and the viral protein is indicated by a decrease in complex formation as compared to the amount of complex formed in the absence of the test substance.
- 2. (original) An assay for identifying a substance that inhibits the interaction of influenza virus NP with a host cell protein comprising:
- (a) contacting a protein or peptide containing an amino acid sequence corresponding to the binding site of influenza virus NP with a protein or peptide containing an amino acid sequence corresponding to the binding site of the host cell protein, under conditions and for a time sufficient to permit binding and formation of a complex, in the presence of a test substance, and
- (b) detecting the formation of a complex, in which the ability of a test substance to inhibit the interaction between influenza virus NP and the host cell protein is indicated by a decrease in complex formation as compared to the amount of complex formed in the absence of the test substance.
- 3. (amended) The assay of Claim 2 in which the host cell protein is NPI-1, NPI-2, NPI-3, NPI-4, NPI-5, or NPI-6.
 - 4. (canceled)

- 5. (canceled)
- 6. (canceled)
- 7. (canceled)
- 8. (canceled)
- 9. (original) An assay for identifying a substance that inhibits the interaction of influenza virus NS1 with a host cell protein comprising:
- (a) contacting a protein or peptide containing an amino acid sequence corresponding to the binding site of influenza virus NS1 with a protein or peptide containing an amino acid sequence corresponding to the binding site of the host cell protein, under conditions and for a time sufficient to permit binding and formation of a complex, in the presence of a test substance, and
- (b) detecting the formation of a complex, in which the ability of a test substance to inhibit the interaction between influenza virus NS1 and the host cell protein is indicated by a decrease in complex formation as compared to the amount of complex formed in the absence of the test substance.
 - 10. (original) The assay of Claim 9 in which the host cell protein is NS1I-1.
- 11. (original) The assay of Claim 1, 2, or 9 in which one protein or peptide of the complex is immobilized, and the other protein or peptide is labeled with a signal-generating compound.
 - 12. (canceled)
 - 13. (canceled)
 - 14. (canceled)

| | 15. | (original) The assay of Claim 1, 2, or 9 in which the proteins or peptides are |
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| contact | ted in a | liquid phase to form a complex which is separated from the liquid phase at the |
| end of the reaction. | | |
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| | 16. | (canceled) |
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| | 17. | (canceled) |
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| | 18. | (original) A method for treating influenza virus infection, comprising |
| admini | stering | to an infected individual, a therapeutically effective amount of a substance that |
| inhibits the specific interaction of a host cell protein with a viral protein required for viral | | |
| infection, replication, assembly or release. | | |
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| | 19. | (original) The method of Claim 18 in which the viral protein is NP. |
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| | 20. | (amended) The method of Claim 18 the host cell protein is NPI-1, NPI-2, NPI- |
| 3, NPI-4, NPI-5, or NPI-6. | | |
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| | 21. | (canceled) |
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| | 22. | (canceled) |
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| | 23. | (canceled) |
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| | 24. | (canceled) |
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| | 25. | (canceled) |
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| | 26. | (original) The method of Claim 18 the viral protein is NS1. |
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| | 27. | (original) The method of Claim 18 the host cell protein is NS1I-1. |
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- 28. (original) An isolated DNA sequence which encodes the amino acid sequence of NPI-1, or which selectively hybridizes to the complement of the coding sequence of NPI-1 and encodes a functionally equivalent gene product.
- 29. (original) An isolated DNA sequence which encodes the complement of the DNA sequence of Claim 28.
 - 30. (original) A DNA vector containing the DNA sequence of Claim 28.
 - 31. (canceled)
- 32. (original) An expression vector containing the DNA sequence of Claim 28 operatively associated with a regulatory element that directs the expression of the DNA sequence.
- 33. (original) A genetically engineered host cell containing the DNA sequence of Claim 28 operatively associated with a regulatory element that directs expression of the DNA sequence in the host cell.
- 34. (original) A DNA sequence which encodes the amino acid sequence of NPI-2, NPI-3, NPI-4, NPI-5, or NPI-6 or which selectively hybridizes to the complement of the coding sequence of NPI-2, NPI-3, NPI-4, NPI-5, or NPI-6 and encodes a functionally equivalent gene product.
- 35. (original) A DNA sequence which encodes the complement of the DNA sequence of Claim 34.
 - 36. (original) A DNA vector containing the DNA sequence of Claim 34.
 - 37. (canceled)

- 38. (original) An expression vector containing the DNA sequence of Claim 34 operatively associated with a regulatory element that directs the expression of the DNA sequence.
- 39. (original) A genetically engineered host cell containing the DNA sequence of Claim 34 operatively associated with a regulatory element that directs expression of the DNA sequence in the host cell.
- 40. (original) An isolated DNA sequence which encodes the amino acid sequence of NS1I-1, or which selectively hybridizes to the complement of the coding sequence of NS1I-1 and encodes a functionally equivalent gene product.
- 41. (original) An isolated DNA sequence which encodes the complement of the DNA sequence of Claim 40.
 - 42. (original) A DNA vector containing the DNA sequence of Claim 40.
 - 43. (canceled)
- 44. (original) An expression vector containing the DNA sequence of Claim 40 operatively associated with a regulatory element that directs the expression of the DNA sequence.
- 45. (original) A genetically engineered host cell containing the DNA sequence of Claim 40 operatively associated with a regulatory element that directs expression of the DNA sequence in the host cell.